



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

Umicore Building Products USA Inc.
3600 Glenwood Avenue, Suite 250
Raleigh, NC. 27612-4945

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: VM ZINC® Plus Roof Panels

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA# 06-0920.07 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 11-0812.04
Expiration Date: 11/16/16
Approval Date: 11/03/11
Page 1 of 7

ROOFING ASSEMBLY APPROVAL:

Category: Roofing
Sub-Category: Non-Structural Metal Roofing
Material: Zinc
Deck Type: Wood
Maximum Design Pressure -108.65 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
VM ZINC® Plus Roof Panel	Length: various Width: 16 7/8" and Thickness: 0.028"	TAS 110	Corrosion resistant, performed, standing seam, pre-finished, zinc panels.
2-Piece Sliding Clip	Clip Base: Length :4 5/16" Width: 7/8" Thick: 0.021" Clip Top: Length: 1" Width: 1" Height: 1" Thick: 0.016"	TAS 110	2-piece stainless steel sliding clips for zinc panel installation.
Fixed Clips	Length :1 7/16" Height: 1" Width: 1" Thickness: 0.016"	TAS 110	1-piece stainless steel clips for zinc panel installation.
Trim Pieces	Length: varies Width: varies Thickness: 0.0276"	TAS 110	Standard flashing and trim pieces, corrosion resistant galvalume.

MANUFACTURING LOCATION:

1. Allentown, PA.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Architectural Testing	66154.01-109-44	TAS 100-95	08/03/06
Farabaugh Engineering and Testing, Inc.	T167-06 T168-06	TAS 125	06/19/06

APPROVED ASSEMBLIES:

SYSTEM A-1: VM ZINC® Plus Roof Panels (with 2 piece sliding clips)

Deck Type: Wood, Non-insulated

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank.

Slope Range: 2": 12" or greater

Maximum Uplift Pressure: See Table A Below

Deck Attachment: In accordance with applicable building code, but in no case shall it be less than # 8 x 2" long screws spaced 6" o.c. In reroofing, where the deck is less than ¹⁹/₃₂" thick (Minimum ¹⁵/₃₂") The above attachment method must be in addition to existing attachment.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1 ¼ annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll, or any approved underlayment having a current NOA.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in Umicor Building Products USA, Inc's Installation Manual.

Fire Barrier Board: Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

Metal Panels and Accessories: Install the "VM ZINC® Plus Roof Panels" and accessories in compliance with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance Roofing Application Standard RAS 133.

Install the 2-piece stainless steel panel clips over the male end of the panel using (2) two #8-15 flat countersunk head stainless steel A-point fasteners long enough to penetrate the sheathing 3/16". Place the screws through the outside holes of the clip. Each clip shall be installed at a maximum distance shown in **Table A** below. Install adjacent panel over the panel and clip assembly and seam using a 180° double lock. See **Detail A** herein.

TABLE A		
Maximum Design Pressure		
	Field	Perimeter and Corner¹
Maximum Design Pressure	-69.9 psf	-108.65 psf
Maximum Fastener Spacing	18" o.c.	9" o.c.
1. Extrapolation shall not be allowed		

SYSTEM B-1:	VM ZINC® Plus Roof Panels (with 1 piece clips)
Deck Type:	Wood, Non-insulated
Deck Description:	¹⁹ / ₃₂ " or greater plywood or wood plank.
Slope Range:	2": 12" or greater
Maximum Uplift Pressure:	See Table B Below
Deck Attachment:	In accordance with applicable building code, but in no case shall it be less than # 8 x 2" long screws spaced 6" o.c. In reroofing, where the deck is less than ¹⁹ / ₃₂ " thick (Minimum ¹⁵ / ₃₂ ") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1 ¼ annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll, or any approved underlayment having current NOA.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Metal Panels and Accessories:	<p>Install the "VM ZINC® Plus Roof Panels" and accessories in compliance with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance Roofing Application Standard RAS 133.</p> <p>Install the 1-piece stainless steel panel clips over the male end of the panel using (2) two #8-15 flat countersunk head stainless steel A-point fasteners long enough to penetrate the sheathing 3/16". Each clip shall be installed at a maximum distance shown in Table B below. Install adjacent panel over the panel and clip assembly and seam using a 180° double lock. See Detail B herein.</p>

TABLE B		
Maximum Design Pressure		
	Field	Perimeter and Corner¹
Maximum Design Pressures	-82.65 psf	-97.5 psf
Maximum Row Spacing	12" o.c.	9" o.c.
1. Extrapolation shall not be allowed		

SYSTEM LIMITATIONS

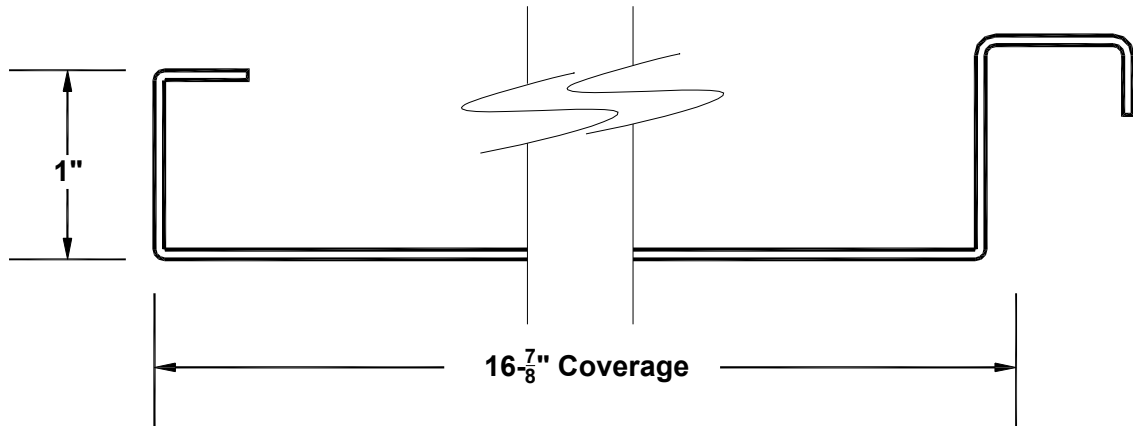
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. Panels may be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.



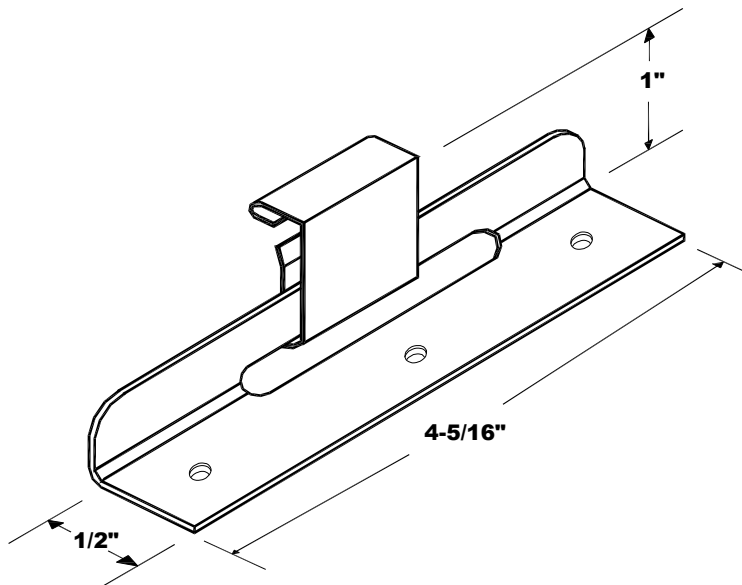
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.



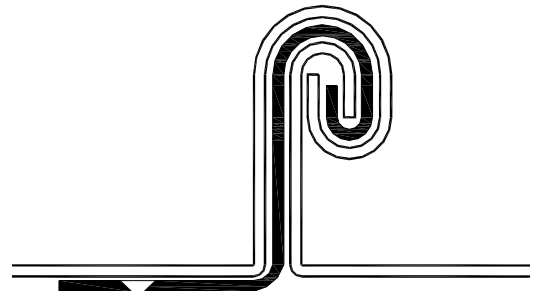
PROFILE DRAWINGS DETAIL A



UMICORE VM ZINC® PLUS PANEL

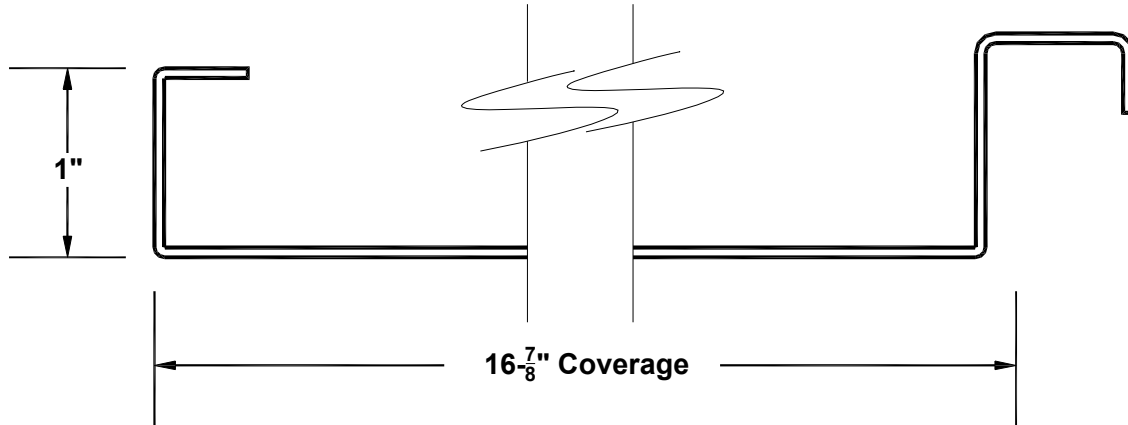


TWO-PIECE CLIP
(SEE TABLE A HEREIN FOR CLIP SPACING)

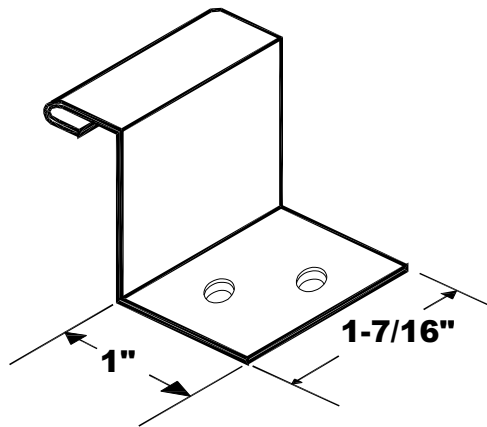


DOUBLE LOCK

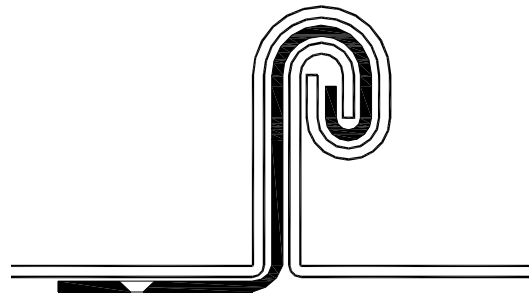
DETAIL B



UMICORE VM ZINC® PLUS PANEL



ONE-PIECE CLIP
(SEE TABLE B HEREIN FOR CLIP SPACING)



DOUBLE LOCK

END OF THIS ACCEPTANCE